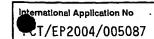
INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04B1/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H04B} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 188 877 B1 (BOESCH RONALD D ET AL) 13 February 2001 (2001-02-13) abstract; figures 3,4 column 5, line 38 - column 7, line 40	1-14
X	EP 0 823 790 A (NOKIA MOBILE PHONES LTD) 11 February 1998 (1998-02-11) abstract; figure 3	1-14
X	US 6 091 966 A (MEADOWS RONALD C) 18 July 2000 (2000-07-18) column 3, line 56 - column 5, line 10; figures 1,4	1-14
A	EP 0 780 993 A (LUCENT TECHNOLOGIES INC) 25 June 1997 (1997-06-25) abstract; figure 3 -/	1-14
X Furi	her documents are listed in the continuation of box C. X Patent family members	are listed in annex.

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the International search 7 September 2004	Date of mailing of the international search report 16/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Kolbe, W

INTERNATIONAL SEARCH REPORT

International Application No T/EP2004/005087

	INTERNATIONAL SEARCH REPORT	T/EP2004/005087
Continue	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
alegory °	Citation of document, with indication, where appropriate, or an	1.14
A .	GB 2 362 544 A (ROKE MANOR RESEARCH) 21 November 2001 (2001-11-21) abstract; figure 4 GB 2 346 049 A (ROKE MANOR RESEARCH) 26 July 2000 (2000-07-26) abstract; figure 4	1-14
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INTERNATIONAL SEARCH REPORT

T/EP2004/005087

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PATENT COOPERATION TREATY

REC'D 2 4 OCT 2005

PCT

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/PEA/416
D53573PC		Priority date (day/month/year)
	International filing date (day/month	10.06.2003
ternational application No.	12.05.2004	
CT/EP2004/005087	C) or national classification and IPC	
Applicant SONY ERICSSON MOBILE		stablished by this International Preliminary Examining rding to Article 36.
1. This report is the internation	and transmitted to the applicant according	-heat
Authority arias	sheets, including this cov	let zuger
This REPORT consists of	a total of a	•
a. \(\text{Solution} \) sent to the application \(\text{Solution} \) sheets of the and/or sheets Administrative \(\text{Constraints} \) sheets which	description, claims and/or drawings w containing rectifications authorized b e Instructions). supersede earlier sheets, but which to a superse in the international application.	this Authority considers contain an amendment that goes on as filed, as indicated in item 4 of Box No. I and the
b. (sent to the Intersequence listing Box Relating to	mational Bureau only) a total of (indica mational Bureau only) a total of (indica and/or tables related thereto, in comp Sequence Listing (see Section 802 of	THE LYDING THE THE PARTY OF THE
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/005087

N	PATENTABILITY	
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	☐ This report is based on transla which is the language of a trar ☐ international search (under publication of the internation	r Rules 12.3 and 23.1(b)) r Rules 12.3 and 23.1(b)) ronal application (under Rule 12.4) ronal application (under Rules 55.2 and/or 55.3) ronal application (under Rules 55.2 and/or 55.3) ronal application, this report is based on (replacement sheets which the international application, this report is based on an invitation under Article 14 are referred to in this
	Description, Pages	as originally filed
	Claims, Numbers	received on 07.10.2005 with letter of 07.10.2005
	Drawings, Sheets	as originally filed
	1/2, 2/2	any related table(s) - see Supplemental Box Relating to Sequence Listing
	a sequence listing some	esulted in the cancellation of:
	☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/f ☐ the sequence listing (rigs (specify): o sequence listing (specify):
	nad not been had n	o sequence listing (<i>specify)</i> . Itablished as if (some of) the amendments annexed to this report and listed below the listed as indicated in the list below the disclosure as filed, as indicated in the list below the
	☐ the description, page ☐ the claims, Nos.☐ the drawings, sheets	sitios
	* If item 4 applies	s, some or all of these sheets and

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/005087

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-13

1-13

1-13

1. Statement

Novelty (N)

Yes: Claims

Claims No:

Inventive step (IS)

Claims Yes:

Claims No:

Industrial applicability (IA)

Claims Yes:

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

International application No.

PCT/EP2004/005087

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document D1, (see in particular Figure 3), discloses a method of reducing the influence on signals transmitted in one of at least two frequency bands (800 and 1. 1900 MHZ) the method comprising the steps of when transmitting signals in a first frequency band (800MHz) from a signal generating unit (302, generator not shown) on a first connection (308) to a power amplifying unit breaking a second separate connection (306) provided between the signal generating (310,320),

unit (302) and the power amplifying unit (310,320), which second connection (306) is used for a second frequency band(1900 MHZ) and

when transmitting signals in a second frequency band (1900MHz) from a signal generation unit (302, generator not shown) on the second connection (306) to the power amplifying unit (310,320),

breaking a first connection (308) provided between the signal generating unit (302) and the power amplifying unit (310,320).

The references in parentheses apply to the figures of D1. It should be noted that the power amplifying unit (310,320) of D1 comprises two amplifiers.

The disclosure of D1 thus only differs from the subject-matter of claim 1 in that claim 1 specifies the functional units, i.e signal generating unit and amplifying unit, as chips.

It is however, a usual design measure to implement a signal generation unit and an amplifying unit using semiconductor chips.

A skilled person, when having the problem, to implement the method known from D1, would therefore, by applying normal design techniques, arrive at the subject-matter of claim 1 without the exercise of an inventive step in the sense of Article 33 (3) PCT.

The subject-matter of independent claims 3,4,8,9 and 13 corresponds to the subjectmatter of claim 1, therefore the above argumentation correspondingly applies to 3.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/005087

these claims.

The dependent do not appear to contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step (Article 33(3) PCT) since these claims merely define an association of known 4. features functioning in their normal way and, in combination, not producing any nonobvious working interrelationship, cf. PCT Guidelines Chapt. IV,8.8(B1).

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 to D3 is not mentioned in the description, nor are these documents identified therein.

Certain observations on the international application Re Item VIII

Although claims 1,3,4,8,9 and 13 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Hence, claims 1,3,4,8,9 and 13 do not meet the requirements of Article 6 PCT.

CLAIMS

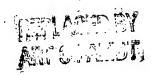
- 1. Method of reducing the negative influence on signals transmitted in one (B₁) of at least two frequency bands (B₁, B₂) comprising the steps of: transmitting signals in a first frequency band on a first connection (22) from a signal generating unit (16) to a signal processing unit (18), (step 32) and breaking a second connection (24) provided between the signal generating unit and the signal processing unit, which second connection is used for a second frequency band (B₂), (step 30).
- 2. Method according to claim 1, further comprising the step of providing a control signal (CTRL) by the signal generating unit (step 28) and the step of breaking is performed in dependence of said control signal.
- 3. Method of reducing the negative influence on signals transmitted in one of at least two frequency bands (B₁, B₂) comprising the steps of: receiving, in a signal processing unit (18), signals in a first frequency band (B₁) on a first connection (22) from a signal generating unit (16), (step 34), and breaking a second connection (24) provided between the signal generating unit and the signal processing unit, (step 30), which second connection is used for a second frequency band (B₂).
- 4. Device (36) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:
 - a signal generating unit (16) for connection to a signal processing unit (18) via at least two connections (22, 24), and a connection breaking unit (20) connected to at least one (24) of the two connections and arranged to break the connection (24) between the signal generating unit and the signal processing unit, when signals are to be transmitted from the signal generating unit to the signal processing unit on
- 5. Device according to claim 4, wherein the signal generating unit is arranged to provide a control signal (CTRL) and the connection breaking unit is provided with a control signal input for receiving the control signal for actuating the breaking of the connection.

the other connection (22).

6. Device according to claim 5, wherein the connection breaking unit is a switch, preferably an RF switch.

- 7. Device according to any of claims 4 6, wherein the signal generating unit is a modulation unit.
- 8. Device according to any of claims 4 7, wherein the signal processing unit is a power amplifying unit.
- 9. Device (36) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:
 - a signal processing unit (18) for connection to a signal generating unit (16) via at least two connections (22, 24), and a connection breaking unit (20) connected to at least one (24) of the two connections and arranged to break the connection between the signal generating unit and the signal processing unit, when signals are to be transmitted from the signal generating unit to the signal processing unit on the other connection (22).
- 10. Device (10; 12) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:
 - a signal processing unit (18) and a signal generating unit (16) connected to each other via at least two connections (22, 24), and a connection breaking unit (20) connected to at least one (24) of the two connections and arranged to break the connection between the signal generating unit and the signal processing unit, when signals are to be transmitted from the signal generating unit to the signal processing unit on the other connection (22).
- 11. Device according to claim 10, in which it is a portable communication device (10).
- 1/2. Device according to claim 11, in which it is a cellular phone.
- 13. Device according to claim 10, in which it is a base station (12).
- 14. System of wireless communication devices comprising at least one portable communication device (10) and at least one base station (12), wherein at least one of the devices comprises:
 - a signal processing unit (18) and a signal generating unit (16) connected to each other via at least two connections (22, 24), and

a connection breaking unit (20) connected to at least one (24) of the two connections and arranged to break the connection between the signal generating unit and the signal processing unit, when signals are to be transmitted from the signal generating unit to the signal processing unit on the other connection (22).



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